

(57) Abstract

The invention relates to a complex comprising a magnesium dihalide and an electron donor. It is a complex of the magnesium dihalide and the electron donor and has the formula (I):



wherein MgX_2 is the magnesium dihalide and $\text{R}(\text{OR}')_n$ is the electron donor, X is a halogen, R is an n-valent $\text{C}_1\text{-C}_{20}$ aliphatic group, an n-valent $\text{C}_7\text{-C}_{27}$ araliphatic group or an n-valent $\text{C}_2\text{-C}_{22}$ acyclic group, R' is a $\text{C}_1\text{-C}_{20}$ alkyl group or a $\text{C}_7\text{-C}_{27}$ aralkyl group, n is a number from 1 to 6 and m is defined as a number $0.5 \leq m \leq 2.0$. The invention also relates to the preparation process of such a complex, as well as the use thereof for the preparation of olefin polymerization catalyst components.

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